

AMENDMENT UNDER 37 C.F.R. § 1.111

Application No.: 10/645,625

Atty Docket No.: Q71638

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

Claim 1. (currently amended): A magnetic recording medium comprising a glass substrate having grooves on the surface thereof, an orientation-determining layer, a non-magnetic undercoat layer, a magnetic layer, and a protective film, the layers and film being successively formed on the substrate, wherein the orientation-determining layer contains at least one alloy selected from the group consisting of a Co-W-based alloy, a Co-Mo-based alloy, a Fe-W-based alloy and a Fe-Mo-based alloy~~element selected from the group consisting of Co, Ni, and Fe and at least one element selected from the group consisting of W, Mo, Ta, and Nb.~~

Claim 2. (canceled).

Claim 3. (currently amended): A magnetic recording medium according to claim 1 ~~or 2~~, wherein the orientation-determining layer has a thickness falling within a range of 10 Å to 300 Å.

Claim 4. (currently amended): A magnetic recording medium according to claim 1 ~~or 2~~, wherein the glass substrate is formed of amorphous glass.

Claim 5. (currently amended): A magnetic recording medium according to claim 1 ~~or 2~~, wherein the grooves have a line density of at least 7,500 (lines/mm).

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Claim 6. (currently amended): A magnetic recording medium according to claim 1 ~~or 2~~, wherein the magnetic anisotropy index of the magnetic layer (coercive force in a circumferential direction/coercive force in a radial direction) is at least 1.05.

Claim 7. (currently amended): A magnetic recording medium according to claim 1 ~~or 2~~, wherein the magnetic anisotropy index of residual magnetization (residual magnetization in a circumferential direction/residual magnetization in a radial direction) is at least 1.05.

Claim 8. (currently amended): A magnetic recording medium according to claim 1 ~~or 2~~, wherein the non-magnetic undercoat layer contains a Cr layer, or a Cr alloy layer containing at least one element selected from the group consisting of Ti, Mo, Al, Ta, W, Ni, B, Si, and V.

Claim 9. (currently amended): A magnetic recording medium according to claim 1 ~~or 2~~, wherein the magnetic layer contains at least one alloy selected from the group consisting of a Co-Cr-Ta-based alloy, a Co-Cr-Pt-based alloy, a Co-Cr-Pt-Ta-based alloy, a Co-Cr-Pt-B-based alloy, and a Co-Cr-Pt-B-Y-based alloy, (wherein Y represents Ta or Cu).

Claim 10. (currently amended): A magnetic recording and reproducing apparatus comprising a magnetic recording medium as recited in claim 1-~~or 2~~, and a magnetic head for recording of data onto the medium and for reproduction of the data therefrom.